

Scatter Plot Opener

Using the TI83 Determine the *Equation of Best Fit* and *Correlation Value* for Height vs Humerus Length (L1).
What is the *height* of a female with a *humerus length* of 30 cm

Student #	Height (cm)	Humerus Length (cm)
1	166	32.5
2	173.5	33
3	160	32.5
4	183	36
5	158	31.5
6	171.5	32
7	169	33.5

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Conditions of Linear Relationships 2.11
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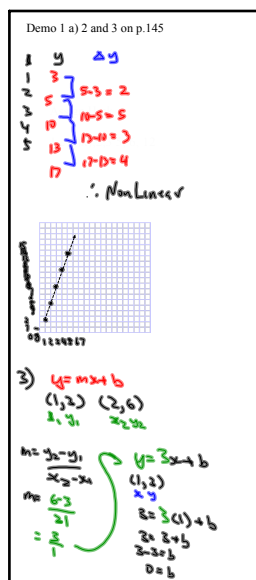
First Differences (Finite Differences) - when the values of the independent variable increase by 1 the differences between the set of dependent variables form a set of finite differences

This calculation is demonstrated on a Difference Table

ind	y	dep	$\Delta y (y_2 - y_1)$
6	4		
8	6		6-4=2
10	8		8-6=2
12	10		10-8=2 Linear
14	12		12-10=2
16	14		14-12=2

When the first differences are all the same the relationship is said to be linear
When the first differences are different the relationship is said to be non-linear

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a) 1 b) c) f) g)

2, 3, 5, 7, 12

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